

Many apparently different embodiments of the present invention may be made without departing from the present scope or spirit of this invention. Therefore, this invention is not limited to the specific embodiments.

I claim:

1. The method for erecting typically a building site a structural framework utilizing frame assemblage with a multitude of said frame assemblage typically juxtaposed in a plurality of linear arrangements of said frame assemblages in said structural framework with said structural framework distanced from typically a plurality of structural frameworks by typically perpendicularly horizontally members typically perpendicular to the plane of the said structural framework with said structural frameworks and said typically perpendicular horizontally members typically defining the boundaries of the building structure with said frame assemblage comprised of typically two vertically-upwardly members with horizontally members abutting and secured to said upwardly members with said upwardly members in conjunction with the said horizontally members in form of typically rectangular configuration with the said horizontally members extending typically from said upwardly member to adjacent said upwardly member with said frame assemblage of said upwardly members with typically each said frame assemblage said vertically-upwardly member juxtaposed and secured with said horizontally members typically prior to the said frame assemblage juxtaposed in said structural framework with outward boundaries of the typically rectangular configurations of adjacent frame assemblages typically distanced to outward boundaries of other typically rectangular configurations of adjacent frame assemblages within said structural framework by additionally typically horizontally members, with the additionally typically horizontal members abutted and secured to closest said upwardly member of each said frame assemblage typically mating all said frame assemblages comprising the typically multitude of said plurality of linear arrangements within said structural framework with said horizontally members and said additional horizontally members of said frame assembles perforated or non-perforated with said perforated

shapes juxtaposed and mated with typically said horizontally members typically perpendicular to the plane of said structural framework secured to said perforated member or said non-perforated shape with said horizontally members typically perpendicular to the plane of the structural framework typically extending through and secured to said perforated horizontally member or perforated additional horizontally member comprising of the steps of:

securing at the building site the said horizontally members to abutting said vertically upwardly members of a part of the total number of the said frame assemblage or all of the total number of the said frame assemblage.

erecting a part of the total number of said frame assemblage or all of the total number of said frame assemblage with the secured said horizontally members in place within the boundaries of the said frame assemblage in a part or whole of the said structural framework.

securing a part of the total number of the additional horizontally members or all of the total number of the said additional horizontally members to the abutting outward boundaries of a part of the total number of adjacent said frame assemblages or the total number of adjacent said assemblages to the said vertically upward members of the said frame assemblages in the said structural framework.

2. Typically a building site member within a structural framework with said building site member comprised of typically horizontally parts and typically vertically part with said horizontally parts typically defining the outward boundaries of the said building site member with the said typically vertically part continuous with the said horizontally parts with said typically vertically part with said vertically parts being comprised of perforated shape or shapes with said perforated shape or shapes comprised of a rotated part typically defining the boundary of one side of the said perforated shape with said rotated part shape typically perpendicular to said typically vertically part of the said building site member with said perforated shape boundaries sized for juxtaposition with typically horizontally member perpendicularly to typically vertically part with boundaries of said typically horizontally member on both sides of

perforated said building site member with said typically vertically part mated to said typically horizontally member by attachment of said typically horizontally member to said rotated part shape.

3. The method claimed in Claim 1 wherein the typically a building system assemblage of Claim 1 comprised of typically two vertically-upwardly columns and horizontally placed beams between said upwardly columns with said horizontally placed beams abutting and secured to upwardly columns with said upwardly columns and said horizontally placed beams typically juxtaposed within the said assemblage with said assemblage placed within a typically building framework with all or some of said assemblage columns and beams typically positioned prior to alignment of said assemblage in said building system.

4. A structural framing system of Claim 2 utilizing typically-horizontally placed beams and girders with said girders webs partially separated with said beams extending through boundaries of said partially separated webs of said girders.

5. The structural framing system of Claim 4 with said partially separated webs of said girders rotated typically perpendicular from plane of said girder web with said partially separated webs adjoining and providing structural support to said beams.

6. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 including a base and members of said framework with said members in a plane intersecting said frame assemblage with said members abutted and secured to said frame assemblage.

7. The method claimed in Claim 1 wherein the said frame assemblage Claim 1 including members of the said framework with said members in a plane intersecting frame assemblage with said members abutted and secured to said upwardly members of said frame assemblage.

8. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 including vertically and horizontally members abutting and secured to the said frame assemblage.

9. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 said upwardly members said horizontally members being comprised of metal material.

10. The method claimed in Claim 9 wherein the said frame assemblage said metal material of Claim 9 being comprised of channel-like sections.

11. The method claimed in Claim 9 wherein the said frame assemblage said metal material of Claim 9 being comprised of tubular-like sections.

12. The method claimed in Claim 9 wherein the said frame assemblage said metal material of Claim 9 with exterior coating.

13. The method claimed in Claim 9 wherein the said frame assemblage said metal material of Claim 9 with exterior coating comprised rust-inhibitive material.

14. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 said upwardly members said horizontally members abutted and secured by adjoining adjacent materials by welds.

15. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 said upwardly members said horizontally members abutted and secured by adjoining adjacent material by bolts.

16. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 abutting and secured to adjacent said frame assemblage prior to the placement of adjacent attaching said additional horizontally member in the said typically building framework with said structural framework comprised of said frame assemblages.

17. The method claimed in Claim 9 wherein the said frame assemblages of Claim 9 attached or secured to said upwardly member to said upwardly member of adjacent said assemblage by bolts.

18. The method claimed in Claim 16 wherein the said frame assemblages of Claim 16 attached or secured to said upwardly member to said upwardly member of adjacent said assemblage by welds.

19. The method claimed in Claim 16 wherein The said frame assemblages of Claim 16 attached or secured to said upwardly member to said upwardly member of adjacent said assemblage by screws.

20. The method claimed in Claim 9 wherein the said frame assemblage of Claim 9 utilizing a multitude of projected members abutted and secured to said additional typically horizontally members in said typically structural framework.

21. The method claimed in Claim 20 wherein the said projected member of Claim 20 abutted and secured to adjacent to said additional typically horizontally members abutted and secured to said upwardly member typically by bolts.

22. The method claimed in Claim 20 wherein the said projected member of Claim 20 abutted and secured to adjacent to said additional typically horizontally members abutted and secured to said upwardly member

typically by welds.

23. The method claimed in Claim 20 wherein the said projected member of Claim 20 abutted and secured to adjacent to said additional typically horizontally members abutted and secured to said upwardly member typically by screws.

24. The method claimed in Claim 20 wherein the said frame assemblage of Claim 20 juxtaposed in structural typically building framework with said frame assemblage typically perpendicular to adjacent frame assemblage.

25. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 with additional assemblage typically between the boundaries of said frame assemblage.

26. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 with boundaries of said frame assemblage placed adjacent to adjacent panel with said panel typically rigidly secured and attached to said frame assemblage.

27. The method claimed in Claim 26 wherein the said panel of Claim 26 positioned on a foundation base with said panel juxtaposed against adjacent material or in close proximity with said material typically located below the surface of the earth.

28. The method claimed in Claim 1 wherein the said frame assemblage of Claim 1 with typically any amount of adjacent piece or pieces secured and attached to said frame assemblage to all or some said frame assemblage members with said adjacent pieces positioned typically in the same plane and along the length of the said frame assemblage members.

Response to Arguments

Argument 1 by the examiner in dated document mailed 12-5-02.

Response by applicant:

The method claim after description has been corrected with the following:

securing at the building site the said horizontally members to abutting said vertically upwardly members of a part of the total number of the said frame assemblage or all of the total number of the said frame assemblage.

erecting a part of the total number of said frame assemblage or all of the total number of said frame assemblage with the secured said horizontally members in place within the boundaries of the said frame assemblage in a part or whole of the said structural framework.

securing a part of the total number of the additional horizontally members or all of the total number of the said additional horizontally members to the abutting outward boundaries of a part of the total number of adjacent said frame assemblages or the total number of adjacent said assemblages to the said vertically upward members of the said frame assemblages in the said structural framework.

The applicant further comments in comment 1 (below).

Argument 2 by the examiner in dated document mailed 12-5-02.

Response by applicant:

The clarification of the response of Argument 1 by the examiner in dated document mailed 12-5-02 now satisfies 35USC112 by particularly point out and distinctly claiming the subject matter.

Argument 3 by the examiner in dated document mailed 12-5-02.

Response by applicant:

The clarification of the response of Argument 3 by the examiner in dated document mailed 12-5-02 is satisfied as defining the particulars to the method Claim 1.

Argument 4, 5 by the examiner in dated document mailed 12-5-02.

Response by applicant:

The clarification of the response of Argument 4,5 by the examiner in dated document mailed 12-5-02 is that method described by Claim 1, etc. was not anticipated by Graham Wood (US 3,304,675) and that the apparatus described in Claim 2 was not anticipated by Graham Wood.

1. The applicant does see some similarities between the contents of the claims and Graham-Wood but common knowledge in the industry does not in practice permit the method as demonstrated in Claim 1, etc. to be utilized by Graham-Wood. Graham-Wood demonstrates a building that relies on precise fit-up of pieces due to the employment of rectangular prefabricated edge pieces in conjunction with a rectangular end panel column (shear wall column). Each piece as noted in the patent document drawings is individually erected for this reason. Claim 1 does not include a rectangular shear wall panel within the individual panels. Lateral resistance methods for the building structures that Claim 1 are utilized are varied in the ways to resist these loads and are usually project specific – that being designed for each an every project and there specific requirements.

The applicant further clarifies lateral resistance in comment 2 (below).

2. The uniqueness of this multi-story shear wall was in the applicant's opinion the basis of his award for the patent. As shown and demonstrated the shear wall provides the design load resistance for lateral loads for the total wall side assemblage. Graham-wood was placing a emphasis on cost of erection for his invention. If he could he would have assembled the whole panel assemblage at one time due to the potential savings in erection. He did not choose to do so because the stiffness of the shear wall panel does not allow for the allowance required for field assembly of a whole wall assemblage at one time. He distinctly mentions the method of erection which included a piece by piece erection not an assemblage erection for the reason that it was not practical for his invention. Claim 1,etc. does not utilize this sort of panel area as described by Graham-Wood. Claim 1, etc. reasonability permits the flexibility required in frame movement to assemble the piece as one assemblage. This fact is quite important in the consideration that foundations levelness are never exact and the frame action without additional shear panels provides allowance for such.
3. Claim 1 demonstrates a method in lieu of being an apparatus such as defined by Graham-Wood.

4. Claim 2 uniquely demonstrates a beam going through the web of girder and attached to the a rotated cut out on three sides of the girder web. This is not disclosed in Graham-Wood. The applicant apologizes for the clarity of the previously submitted Claim and resubmits the claim with further clarity of the unique apparatus.

2. Typically a building site member within a structural framework with said building site member comprised of typically horizontally parts and typically vertically part with said horizontally parts typically defining the outward boundaries of the said building site member with the said typically vertically part continuous with the said horizontally parts with said typically vertically part with said vertically parts being comprised of perforated shape or shapes with said perforated shape or shapes comprised of a rotated part typically defining the boundary of one side of the said perforated shape with said rotated part shape typically perpendicular to said typically vertically part of the said building site member with said perforated shape boundaries sized for juxtaposition with typically horizontally member perpendicularly to typically vertically part with boundaries of said typically horizontally member on both sides of perforated said building site member with said typically vertically part mated to said typically horizontally member by attachment of said typically horizontally member to said rotated part shape.

The applicant further clarifies the reason for this lack of clarity (below).

5. Claim 3 to Claim 11, Claim 15 to claim 17, Claim 19 to Claim 21 and Claim 23 to Claim 28 are all claims attributed to either Claim 1 or Claim 2. Therefore acceptance of Claim 1 or Claim 2 will therefore provide in the applicant's opinion acceptance of the stated above claims with respect to 35USC102.

Argument 6, 7 by the examiner in dated document mailed 12-5-02.

Response by applicant:

The clarification of the response of Argument 6,7 by the examiner in dated document mailed 12-5-02 is satisfied as defining the particulars to the method Claim 1.

1. Claim 12 to Claim 14, Claim 18 and Claim 22 are attributed to Claim 1 and are inserted for definition of claim for clarification of Claim 1 for future patent and public use of Claim 1.

Comments to Response to Arguments

Comment 1 The method demonstrated in Claim 1 provides a cost savings over present construction methods. Under similar, present construction, each floor is built at one at a time. With this method the set up time is reduced due to the multi-floor approach with this frame. More work is also established on the ground floor in lieu of above the ground floor where individual units of erection become relatively more expensive than ground floor work.

Comment 2 One of benefits of this type of construction is that laterally resistance by moment frame action is provided by the total panel being installed at one time. The completed panel behaves as a entirely new member, with its own stability properties and increase over the total of the individual properties of the members which comprise the panel. The panel provides additional stability and safety in the erection process.

Comment 3 The applicant was on the aftermath of a divorce from a 28 year marriage.